

ALEX MACHIN-MAYES

GIS PROFESSIONAL

CONTACT

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EDUCATION

MS, CARTOGRAPHY AND GIS

University of Wisconsin - Madison, 2021
Phi Kappa Phi | 4.0/4.0 GPA

BA, HUMAN GEOGRAPHY MINOR, GIS

Western Washington University, 2012

CORE SKILLS

GIS Processing & Analysis
Cartographic Visualization
Geodatabase Configuration
GPS Data Collection
Web Map Development

PROFICIENCIES

GIS

ArcGIS Desktop & Pro, ArcGIS
Online, ArcGIS for Collector, Model
Builder, Parcel Fabrics, LGIM, ArcGIS
Developer, ArcPy, QGIS, GRASS

Geodatabases

SQL, schemas, topologies, coded
domains, relationship classes

Related Tools

Adobe Creative Suite, Trimble
Pathfinder Office, U.S. Census data
mapping, urban & international
geography, research & writing

Working Knowledge

ArcGIS API for JavaScript, HTML, CSS,
JavaScript, Bootstrap, Python, Leaflet,
Mapbox, PostgreSQL

PROFILE

Resourceful and self-driven GIS expert with eight years of professional experience. Skilled in the use of GIS tools, geodatabases, cartography, and GPS data collection to streamline data access and visualize geospatial information. Have contributed maps, analysis, and support to a diverse range of project managers, experts, technicians, and tribal government departments.

WORK EXPERIENCE

GIS CONSULTANT

Falcon Cultural Resources | Skagit County, WA 2019-Present

- Produce archaeological site maps and shapefiles for reports to the DAHP.
- Utilize aerial, LiDAR, historical USGS topographic basemaps and web services to give historical and ecological context to site areas.
- Provide GPS data processing and support for field data collection.
- Conduct viewshed analysis to visualize impact of proposed developments.

GIS PROPERTY SPECIALIST

Swinomish Indian Tribal Community | La Conner, WA 2014-2017

- Responsible for providing maps, analysis, database support and maintenance to Land Management, Planning, Environmental Protection, Housing, Archaeology, Forestry, and other tribal departments.
- Contributed to building and maintaining complex databases of government data and assets, including: zoning, parcels, buildings, roads, infrastructure, natural and cultural resources, and utilities.
- Produced maps and updates through the interpretation of land surveys, as-builts, legal property descriptions, and county assessor records, and research.
- Managed and maintained GIS data within the Planning Department system and published data for interdepartmental use to ArcGIS Online.
- Collaborated with project managers to design and configure custom database schemas for ArcGIS Collector apps; enhancing mobile GPS data efficiency and precision by pairing phones and tablets with GNSS receivers.

GIS TECHNICIAN

Independent Contractor | Bellingham, WA 2012-2014

- Created a large forest roads database for salmon habitat restoration using Road Maintenance and Abandonment Plan documents, georeferencing maps, and analyzing LiDAR and NAIP aerial imagery for digitization.
- Digitized the Nooksack River active channel footprint at large scale to update the National Hydrography Dataset.
- Assisted in the development of a comprehensive geodatabase and study template for studying steelhead habitat health indicators in the Hood Canal and Strait of Juan de Fuca regions for the NWIFC.